

PT sequencing end-specific nucleotides of each clone then correlating with
 PT spatial relationship of cosmid, esp. for mammalian chromosomes.
 XX
 PS Example 4; Page 66; 128bp; English.
 CC Sequences were determined from the ends of chromosome 11-specific cosmids
 CC by automated sequencing without intermediate subcloning. A sample of 371
 CC DNA sequence fragments were determined and of these, 277 were suitable
 CC for STS primer prediction by computer analysis (using the "Primer"
 CC program available from E. Lander, MIT). The STSs and cosmids were mapped
 CC by in situ hybridisation, somatic cell hybrid analysis or both. Using
 CC this method, 370 STSs specific for human chromosome 11 were generated and
 CC most of them were regionally mapped. This procedure illustrates a novel
 CC method for sequencing complex genomes, designated "sequence sampled
 CC mapping". The sequence sampled mapping method is useful for the
 CC completion of high density sequence-based maps, and ultimately, for the
 CC complete sequencing of genomic DNA directly from cosmid clones. See
 CC AA082001-082706 for STS primers. (Updated on 25-MAR-2003 to correct PN
 CC field.)
 XX
 SQ Sequence 18 BP; 5 A; 3 C; 8 G; 2 T; 0 U; 0 Other;
 Query Match 1.3%; Score 14; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 863 TCCTGTCAGCCCA 876
 DB 14 TCCTGTCAGCCCA 1
 RESULT 158
 ABRK0140/c
 ID ABRK0140 standard; DNA; 18 BP.
 AC ABRK0140;
 DT 23-APR-2002 (first entry)
 XX
 DE GDI gene PCR primer #1.
 XX
 KM Human; mouse; gene therapy; pseudo-translocation initiation site; primer;
 KM herbicide resistance; pesticide resistance; transgenic plant; ss.
 OS Synthetic.
 XX
 PN WO200196569-A1.
 PD 20-DEC-2001.
 PF 13-JUN-2001; 2001WO-AU000697.
 PR 13-JUN-2000; 2000US-0211159P.
 PA (UYQU) UNIV QUEENSLAND.
 PI Rochnagel JA, Wang X;
 DR WPI; 2002-098072/13.
 XX
 PT Modulating expression of genetic sequence, comprising ORF having RTG/RUG
 PT corresponding to authentic translation site, involves
 PT introducing/removing RTG/RUG triplets in nucleotide sequence upstream of
 PT authentic site.
 XX
 PS Example 11; Page 65; 147bp; English.
 CC The invention relates to a method of modulating expression of a genetic
 CC sequence, comprising introducing, creating or deleting one or more pseudo
 CC -translation initiation sites, in the nucleotide sequence of an mRNA, 5'
 CC upstream of the authentic translation initiation site of an open reading
 CC frame (ORF), or by introducing, creating or deleting Kozac sequences
 CC genetically proximal to the pseudo-translation initiation sites. The

CC method is useful for modulating the expression of a target genetic
 CC sequence. The method is useful for gene therapy applications and for
 CC expressing traits (herbicide and pesticide resistance) at selective
 CC levels in plants. The genetic constructs are useful for administration to
 CC modulate the expression of an antigen. The method is also useful for the
 CC generation of a genetically modified monocytledon or dicotyledon plants,
 CC and also for upregulating or downregulating the function of a promoter.
 CC ABRK0102-ABRK0161 represent human and mouse GDI gene sequences and PCR
 CC primers of the invention
 XX
 SQ Sequence 18 BP; 3 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
 Query Match 1.3%; Score 14; DB 1; Length 18;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 291 GTGACTGGGAACC 304
 DB 14 GTGACTGGGAACC 1
 RESULT 159
 AAQ92122
 ID AAQ92122 standard; DNA; 17 BP.
 AC AAQ92122;
 DT 11-JAN-1996 (first entry)
 XX
 DE p53 detection probe, (codon 161 GCC to GAC).
 XX
 KM primer; polymerase chain reaction; amplify; mutant; K-ras; PCR;
 KM flanking region; amplification; probe; detection; sputum; diagnosis;
 KM benign; malignant; neoplasm; lung; lung cancer; head; neck; ss.
 OS Synthetic.
 XX
 PN WO9513397-A1.
 PD 18-MAY-1995.
 PF 10-NOV-1994; 94WO-US012947.
 PR 12-NOV-1993; 93US-00152313.
 PA (UYJO) UNIV JOHNS HOPKINS SCHOOL MED.
 PI Sidransky D;
 DR WPI; 1995-194114/25.
 XX
 PT Detecting target nucleic acid in mammalian sputum - particularly for
 PT diagnosis of lung neoplasia involving mutation(s) in the K-ras oncogene
 PT or p53 tumour suppressor.
 XX
 PS Example 1; Page 29; 122bp; English.
 CC The sequences given in AAQ92112-211 are probes which were used in the
 CC detection of a mutant p53 gene sequence. The DNA to be detected is
 CC amplified using PCR and then these probes which are pref. labeled using
 CC 32-P gamma-ATP are used to detect the mutant sequences. The primers and
 CC probes given in AAQ92098-219 are used in the method of the invention for
 CC detecting mammalian target DNA in sputum samples. Analysis of the target
 CC DNA is used to diagnose benign or malignant neoplasms of the lung. It is
 CC also useful for screening people at high risk or for monitoring progress
 CC of treatment for screening people at high risk or for monitoring progress
 CC of treatment for screening people at high risk or for monitoring progress
 CC mutant target DNA associated with lung cancer is present at detectable
 CC levels in sputum. Cells shed into sputum from head and neck cancers may
 CC also be detected
 XX
 SQ Sequence 17 BP; 5 A; 6 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 1.3%; Score 13.8; DB 1; Length 17;

PI McKay I, Schafer A;
 XX
 XX WPI: 2003-559156/52.
 XX
 PT Determining whether an individual is predisposed to susceptibility to low
 PT bone mineral density (BMD) and/or bone damage, involves identifying to low
 PT polymorphisms in associated genes.
 XX
 XX Example 8; Page 238; 246pp; English.
 XX
 PS The present invention describes a method of determining whether an
 CC individual is predisposed to susceptibility to low bone mineral density
 CC (BMD) and/or bone damage comprising identifying whether the individual
 CC has at least one polymorphism in a polynucleotide encoding a protein,
 CC where the polynucleotide is one of 81 200-500 nucleotide sequences (S1,
 CC see ADG98235 to ADG98315). An agent identified in a method from the
 CC present invention which can be used for the prevention or treatment of a
 CC disease resulting in susceptibility to low BMD and/or bone damage is
 CC useful in the manufacture of a medicament for use in modulating the
 CC susceptibility to low BMD and/or bone damage. The disease associated with
 CC low BMD and/or bone damage is osteoporosis. The present PCR primer
 CC sequence is used in the exemplification of the present invention.
 CC
 SQ Sequence 14 BP; 6 A; 8 C; 0 G; 0 T; 0 U; 0 Other;
 Query Match 1.3%; Score 14; DB 1; Length 14;
 Best Local Similarity 100.0%; Pred. No. 1.1e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 881 CCCACAAACCCCAA 894
 Db 1 CCCACAAACCCCAA 14
 RESULT 156
 AAX63844
 ID AAX63844 standard; RNA; 17 BP.
 AC AAX63844;
 XX
 XX 20-JUL-1999 (first entry)
 DT
 XX Rabbit stromelysin hammerhead target SEQ ID NO:476.
 DE
 XX Arthritic condition; graft tolerance; immune response; target; cleavage;
 KM hammerhead ribozyme; hairpin ribozyme; human; rabbit; mouse; collagenase;
 KM stromelysin; synovial membrane; joint; arthritis; osteoarthritis;
 KM rheumatoid arthritis; autoimmune disease; allergy; inflammation;
 KM diagnosis; ss.
 XX
 XX Oryctolagus cuniculus.
 OS
 XX WO9618736-A2.
 PN
 XX 20-JUN-1996.
 PD
 XX 22-NOV-1995; 95WO-US015516.
 PF
 XX 13-DEC-1994; 94US-00354920.
 PR 23-DEC-1994; 94US-00363253.
 PR 17-FEB-1994; 94US-00363254.
 PR 17-FEB-1994; 94US-00390850.
 PR 20-APR-1995; 95US-00426124.
 PR 02-MAY-1995; 95US-00432874.
 PR 04-MAY-1995; 95US-00434509.
 PR 07-JUL-1995; 95US-0000951P.
 PR 07-JUL-1995; 95US-0000974P.
 PR 07-AUG-1995; 95US-00512861.
 PR 05-OCT-1995; 95US-00541365.
 XX
 XX (RIBO-) RIBOZYME PHARM INC.
 PA
 XX Belgelman L, Stinchcomb DT, Jarvis T, Draper K, Pavco P;
 PI

PI Mcswigen J, Gustofson J, Usman N, Wincott F, Matulic-Adamic J;
 PI Karpetsky A, Thompson JD, Modak A, Burgin A;
 XX
 XX WPI: 1996-300653/30.
 DR
 XX Enzymatic nucleic acid molecules having a hammer-head motif - used for
 PT the treatment of arthritis, induction of graft tolerance or treatment of
 PT auto-immune diseases.
 XX
 XX Example 1; Page 153; 307pp; English.
 PS
 XX The present invention describes a novel enzymatic nucleic acid (ENA)
 CC having a hammerhead motif (HM) comprising: (i) at least 5 ribose residues
 CC ; (ii) a 2'-C-allyl modification at position 4 of the ENA; (iii) at least
 CC ten 2',-O-methyl modifications; and (iv) a 3'-end modification. The ENA's
 CC can inhibit collagenase and stromelysin production in the synovial
 CC membrane of joints for the treatment or prevention of arthritis,
 CC particularly osteoarthritis or rheumatoid arthritis. The ENA's can also
 CC be used to treat antigen presenting cells of a donor to induce tolerance
 CC in a recipient to an alloantigen of a donor. They can also be used for
 CC enhancing graft tolerance or for treating autoimmune disease, and for
 CC treating allergies and other inflammatory conditions. The ENA's can also
 CC be used in diagnosis. Ribozyme therapy impacts on the expression of
 CC stromelysin without introducing the non-specific effects upon gene
 CC expression which accompany treatment with retinoids and dexamethasone.
 CC The concentration of ribozyme required to affect a therapeutic treatment
 CC is lower than that required of antisense molecules, and is highly
 CC specific. The present sequence is used in the exemplification of the
 CC present invention
 CC
 SQ Sequence 17 BP; 3 A; 3 C; 3 G; 0 T; 8 U; 0 Other;
 Query Match 1.3%; Score 14; DB 1; Length 17;
 Best Local Similarity 57.1%; Pred. No. 1.3e+02;
 Matches 8; Conservative 6; Mismatches 0; Indels 0; Gaps 0;
 Oy 584 TCCTTTGATGAGC 597
 Db 4 UCCUUUGAUGAGC 17
 RESULT 157
 AA082115/C
 ID AA082115 standard; DNA; 18 BP.
 AC AA082115;
 XX
 XX 25-MAR-2003 (revised)
 DT 01-SEP-1995 (first entry)
 XX
 XX Chromosome 11 (locus D11S1042) STS primer cSRL-2d7-tA.
 DE
 XX sequence sampled mapping; genomic analysis; complex genome mapping;
 KM cosmid library; chromosome 11; sequence tagged site; STS analysis; ss.
 XX
 XX Synthetic.
 OS
 XX WO9429486-A1.
 PN
 XX 22-DEC-1994.
 PD
 XX 15-JUN-1994; 94WO-US006810.
 PF
 XX 15-JUN-1993; 93US-00078471.
 PR 07-SEP-1993; 93US-00117952.
 PR
 XX (SALK) SALK INST BIOLOGICAL STUDIES.
 PA
 XX Evans GA, Smith MW;
 PI
 XX WPI: 1995-036508/05.
 DR
 XX Sequencing complex genomes, present as fragments in a cosmid library - by
 PT

XX 21-MAY-1997; 97US-0047352P.
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX Vogelstein B, Kinzler KW;
 XX MPI; 1999-070161/06.
 XX
 XX Use of isolated gene transcripts - useful for developing products for the
 XX diagnosis, prognosis and treatment of cancers, particularly colon and
 XX pancreatic cancer.
 XX
 XX Claim 13; Page 56; 120pp; English.
 XX
 XX AAX30947-31815 represent tag sequences of transcripts that are
 XX differentially expressed in colorectal cancer, in pancreatic cancer, or
 XX in both. The tag sequences can be used to identify genes by matching the
 XX tag to a gen data base member, or by using the tag sequences as probes to
 XX isolate unidentified genes from cDNA libraries. The tag sequences can
 XX also be used in a method for diagnosing colon or pancreatic cancer in a
 XX sample suspected of being neoplastic. The method comprises comparing the
 XX level of at least one transcript in a first sample of a tissue to a
 XX second sample, where the first sample is a colonic tissue suspected of
 XX being neoplastic and the second sample is a normal human colonic tissue.
 XX The transcript is identified by a tag selected from AAX30947-31815. The
 XX methods of the invention can be used in the diagnosis, prognosis and
 XX treatment of cancer
 XX
 XX Sequence 15 BP; 4 A; 4 C; 3 G; 4 T; 0 U; 0 Other:
 XX
 XX Query Match 1.2%; Score 13.4; DB 1; Length 15;
 XX Best Local Similarity 93.3%; Pred. No. 1.3e+02;
 XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 XX QY 720 CATGAACGCGCCAT 734
 XX |||||
 XX 1 CATGAACGCGCCAT 15
 XX
 XX RESULT 198
 XX AAF52406/C
 XX ID AAF52406 standard; DNA; 15 BP.
 XX
 XX AAF52406;
 XX
 XX 30-MAR-2001 (first entry)
 XX
 XX IGF-1 oligonucleotide #3366.
 XX
 XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 XX cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
 XX skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;
 XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 XX growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
 XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 XX hyperneovascular condition; hyperplasia; kidney disease;
 XX neovascular condition of the retina; ss.
 XX
 XX Homo sapiens.
 XX
 XX WO200078341-A1.
 XX
 XX 28-DEC-2000.
 XX
 XX 21-JUN-2000; 2000MO-AU000693.
 XX
 XX 21-JUN-1999; 99US-0140345P.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX Wraight CJ, Werther GA, Edmondson SR;
 XX

DR MPI; 2001-041421/05.
 XX
 XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 XX inhibits or reduces growth factor mediated cell proliferation and/or
 XX inflammation.
 XX
 XX Example 8; Page 82; 201pp; English.
 XX
 XX The present invention relates to a method for ameliorating the effects of
 XX skin disorders. The method comprises contacting the skin with an
 XX antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 XX inhibiting or reducing growth factor mediated cell proliferation,
 XX inflammation and/or other disorders. The present sequence is an
 XX oligonucleotide which can be used to design the antisense
 XX oligonucleotides of the present invention (see AAF4511 and AAF4513-
 XX P45161). The method is useful for ameliorating the effects of psoriasis,
 XX ichthyosis, ptyriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
 XX neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 XX hyperneovascular condition such as a neovascular condition of the retina,
 XX brain or skin, growth factor-mediated malignancies, other sclerotic
 XX disease, kidney disease, hyperproliferation of the inside of blood
 XX vessels or any other hyperplasia
 XX
 XX Sequence 15 BP; 6 A; 3 C; 4 G; 2 T; 0 U; 0 Other:
 XX
 XX Query Match 1.2%; Score 13.4; DB 1; Length 15;
 XX Best Local Similarity 93.3%; Pred. No. 1.3e+02;
 XX Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX
 XX QY 607 ATCTTGCTCATGCTT 621
 XX |||||
 XX 15 ATCTTGCTCATGCTT 1
 XX
 XX RESULT 199
 XX AAD21228
 XX ID AAD21228 standard; DNA; 15 BP.
 XX
 XX AAD21228;
 XX
 XX 15-JAN-2002 (first entry)
 XX
 XX HCV e/core amplifying sense PCR primer #16.
 XX
 XX Hepatitis B; hepatitis C; immunogen; HBV; HCV; hepatocellular carcinoma;
 XX HCC; gene therapy; virucide; hepatotropic; antiinflammatory; cytostatic;
 XX PCR primer; ss.
 XX
 XX Hepatitis C virus.
 XX
 XX US6297048-B1.
 XX
 XX 02-OCT-2001.
 XX
 XX 07-JUN-1995; 95US-00483511.
 XX
 XX 04-FEB-1992; 92US-00830417.
 XX
 XX 17-MAR-1993; 93US-00032385.
 XX
 XX 04-AUG-1993; 93US-00102132.
 XX
 XX 05-AUG-1994; 94US-00286829.
 XX
 XX 19-JAN-1995; 95US-00374414.
 XX
 XX (CHIR) CHIRON CORP.
 XX
 XX Jolly DJ, Chang SMW, Lee WTL, Townsend K, O'dea J;
 XX
 XX MPI; 2001-647290/74.
 XX
 XX New vectors that direct the (co-)expression of one or more immunogenic
 XX portions of the hepatitis B or C virus antigen(s), useful in gene
 XX therapy, e.g. for treating or preventing hepatitis B or C infections, or

PR 04-APR-1994; 94US-00222795.
 PR 07-APR-1994; 94US-00224483.
 PR 15-APR-1994; 94US-00227958.
 PR 15-APR-1994; 94US-00228041.
 PR 18-MAY-1994; 94US-00245736.
 PR 06-JUL-1994; 94US-00271280.
 PR 15-AUG-1994; 94US-00291932.
 PR 16-AUG-1994; 94US-00291433.
 PR 17-AUG-1994; 94US-00292620.
 PR 19-AUG-1994; 94US-00293520.
 PR 02-SEP-1994; 94US-00300000.
 PR 08-SEP-1994; 94US-00303039.
 PR 23-SEP-1994; 94US-00311486.
 PR 23-SEP-1994; 94US-00311749.
 PR 28-SEP-1994; 94US-00314397.
 PR 03-OCT-1994; 94US-00316771.
 PR 07-OCT-1994; 94US-00319492.
 PR 11-OCT-1994; 94US-00321993.
 PR 04-NOV-1994; 94US-00334847.
 PR 10-NOV-1994; 94US-00337608.
 PR 28-NOV-1994; 94US-00345516.
 PR 16-DEC-1994; 94US-00357577.
 PR 23-DEC-1994; 94US-00363233.
 PR 30-JAN-1995; 95US-00380734.
 PA (RIBO-) RIBOZYME PHARM INC.
 XX
 XX Stinchcomb DT, Chowrira B, Ditzenz A, Draper KG, Dudycz LM;
 PI Grimm S, Karpelesky A, Kisch K, Matulic-Adamic J, Mcswiggan JA;
 PI Modak A, Pavco P, Beigelman L, Sullivan SM, Sweedler D, Thompson JD;
 PI Tracz D, Usman N, Wincott FE, Woolf T;
 DR WPI; 1995-351090/45.
 XX
 PT Ribozymes having modified bases and methods for producing them - for use
 PT in inhibiting disease related genes.
 XX
 PS Claim 2; Page 175; 407pp; English.
 CC The present sequence represents a preferred target sequence for an
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICM-1 mRNA at the
 CC nucleotide base position indicated in the DE line. Regions of the mRNA
 CC that do not form secondary folding structures and that contain potential
 CC hammerhead and hairpin ribozyme cleavage sites were identified by
 CC computer analysis. Ribozymes directed against these mRNA sequences were
 CC designed and synthesised with modifications that improve their nuclease
 CC resistance. The ribozymes cleave the ICM-1 target sequences and thereby
 CC inhibit ICM-1 expression, making them useful for reducing transplant
 CC rejection and alleviating symptoms in patients with rheumatoid arthritis,
 CC asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to
 CC correct PI field.)
 CC
 SQ Sequence 15 BP; 4 A; 2 C; 6 G; 0 T; 3 U; 0 Other;
 QY
 DB 632 CCCAGGTATTGGAGG 646
 1 CCAAGGUUUUGAGG 15
 RESULT 196
 AAV30047
 ID AAV30047 standard; DNA; 15 BP.
 AC AAV30047;
 XX
 XX 13-AUG-1998 (first entry)
 DT
 XX
 XX Primer used to fuse the Hepatitis B e/core DNA sequence.
 XX

KW HBV core; phosphotransferase gene; treatment; intracellular infection;
 KW immunogenic portion; antigen; intracellular pathogen; mammal;
 KW bacterial infection; legionella; tuberculosis; chlamydia;
 KW paratitic infection; rickettsia; leishmaniasis; malaria; viral infection;
 KW Herpes; HIV; FIV; PCR primer; ss.
 XX
 OS Synthetic.
 XX
 PN WO9812332-A1.
 XX
 PD 26-MAR-1998.
 XX
 XX 16-SEP-1997; 97WO-US016453.
 PF
 XX 17-SEP-1996; 96US-0025267P.
 XX
 PA (CHIR) CHIRON CORP.
 PA (SCRI) SCRIPPS RES INST.
 XX
 XX Salberg M, Milich DR, Lee WTL;
 PI
 XX WPI; 1998-217270/19.
 DR
 XX
 PT Vector construct directing expression of intracellular pathogenic antigen
 PT - useful for, e.g. treatment of intracellular diseases in animals such as
 PT tuberculosis and chlamydia.
 XX
 XX
 PS Example 8; Page 63; 141pp; English.
 CC PCR primers AAV30044-52 were used to amplify the Hepatitis B virus (HBV)
 CC e/core DNA sequence. The amplified product is cloned and used to
 CC exemplify the invention, which describes a method for treating
 CC intracellular infections of warm-blooded mammals. This comprises
 CC administering to the mammal a vector construct which directs the
 CC expression of at least one immunogenic portion of an antigen derived from
 CC an intracellular pathogen, and also administering a protein which
 CC comprises the immunogenic portion of the antigen. The composition is used
 CC to treat intracellular infections within warm-blooded animals e.g.
 CC bacterial infections such as legionella, tuberculosis and chlamydia,
 CC parasitic infections such as rickettsia, leishmaniasis or malaria and
 CC viral infections like Hepatitis, Herpes, HIV and FIV
 CC
 SQ Sequence 15 BP; 6 A; 5 C; 2 G; 2 T; 0 U; 0 Other;
 QY
 DB 974 CATGCGCACCAATCC 988
 1 CATGACGACCAATCC 15
 RESULT 197
 AAX31503
 ID AAX31503 standard; DNA; 15 BP.
 AC AAX31503;
 XX
 XX 21-MAY-1999 (first entry)
 DT
 XX
 XX Tag sequence of a transcript increased in pancreatic cancer.
 DE
 XX
 XX Tag sequence; colorectal cancer; pancreatic cancer; colon cancer;
 KW diagnosis; prognosis; treatment; ss.
 XX
 XX Homo sapiens.
 OS
 XX
 XX WO9853319-A2.
 PN
 XX 26-NOV-1998.
 PD
 XX
 XX 20-MAY-1998; 98WO-US010277.
 PF